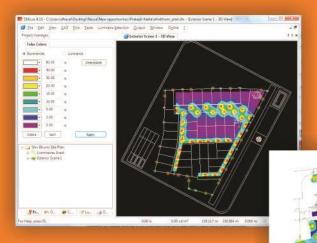
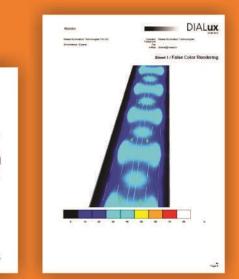


imperial World Trade Pvt. Ltd.

PRODUCT CATALOG SOLAR & LED SOLUTIONS



Planning Planning



Commissioning Commissioning









AC OUTDOOR PRODUCTS

220V AC LED STREET LIGHTS (PREMIUM MODELS)

As compared to the regular sodium and halogen lamps, these LED fixtures consume much less power, emit less heat and are highly durable while still giving a similar light output. Uses of these street light fittings guarantee lower electricity bill, maintenance free operation and superior clarity of light.



Residential, Society, small parking street lighting

Item	SL-12	SL-18	SL-24	SL-30		
Net Power	12W	18W	24W	30W		
LED Efficacy		>135 lm/watt				
Recommended Pole	5m	5m	5m	5m-6m		
Pole Distance	8-10 m	10-12 m	15-20 m	15-20 m		
Dimensions	275x100x40mm	315x135x50mm	315x135x50mm	315x135x50mm		
Weight	1.3 kg	1.7 kg	1.7 kg	1.7 kg		



Medium roads, Large parking area street lighting

Item	SL-45	SL-60	SL-75	
Net Power	45W	60W	75W	
LED Efficacy		>135 lm/watt		
Recommended Pole	6m-7m	6m-7m	6m-7m	
Pole Distance	20-25 m	20-25 m	20-25 m	
Dimensions	375x200x50mm	375x200x50mm	375x200x50mm	
Weight	2.7 kg	2.7 kg	2.7 kg	



OUTDOOR PRODUCTS

Large and high speed road lighting

Item	SL-80	SL-90	SL-100
Net Power	80W	90W	100W
LED Efficacy		>135 lm/watt	
Recommended	7m-8 m	7m-8 m	9m- 10m
Pole Distance	25-30 m	25-30 m	30-35 m
Dimensions	450x250x60mm	450x250x60mm	450x250x60mm
Weight	4.3 kg	4.3 kg	4.3 kg

Highway, Wide Road, Bridge lighting

Item	SL-110	SL-120	SL-150
Net Power	110W	120W	150W
LED Efficacy		>135 lm/watt	
Recommended Pole	11 m	11-12 m	12-13 m
Pole Distance	30–35 m	30–35 m	35–40 m
Dimensions	550x305x65 mm	550x305x65 mm	550x305x65 mm
Weight	7.1 kg	7.1 kg	7.1 kg



OTHER SPECIFICATIONS

Parameters	Values	Features	Specifications
Input Range	90V-300V	LED	OSRAM
Operating Frequency	50Hz	Lens	LEDLINK or Equivalent
Power Factor	>0.95	Color	Cool White; Warm White
Efficiency	>85%	Color Temperature	2700-8000 K
Surge Protection	>10KV	Optics	60/85x135° or equivalent
THD	<15%	LED Beam Angle	120°
LED Luminous Efficiency	> 135 lm/W	Storage Temperature	35° C
CRI	>70	Working Life	60000 Hrs
Protection	Autoshutdown/Autorestart	Body type	High Pressure Aluminum DieCast
Max Temperature of Heat Sink	75° C	IP Rating	IP65

*Auto Dusk to down feature available on request on certain models *Models are available in different size and color.

OUTDOOR PRODUCTS

220V AC LED STREET LIGHTS (ECO MODELS)

Item	E-SL-15	E-SL-20
Net Power	15W	20W
LED Efficacy	>115 lr	n/watt
Recommended Pole	5 m	5 m
Pole Distance	12-15 m	12-15 m
Dimensions	275x100x40mm	275x100x40mm
Weight	1.3 kg	1.3 kg

1		
	100 - 100 100 - 100 100 100 - 100 100 100 100 100 100 100 100 100 100	

Item	E-SL-30
Net Power	30W
LED Efficacy	>115 lm/watt
Recommended Pole	5 m
Pole Distance	15-20 m
Dimensions	315x135x50mm
Weight	1.7 kg



Item	E-SL-45	E-SL-60	E-SL-75
Net Power	45W	60W	75
LED Efficacy	>115 lm/watt		
Recommended Pole	5m	5 m	6m
Pole Distance	18-22 m	20-25 m	20-25 m
Dimensions 375x200x50mm		375x200x50mm	375x200x50mm
Weight	2.7 kg	2.7 kg	2.7 kg



Item	E-SL-90	E-SL-100	E-SL-120			
Net Power	90W	100W	120W			
LED Lumens		>115 lm/watt				
Recommended	7 m-8 m	7 m-8 m 7 m-8 m				
Pole Distance	25-30 m	25-30 m	25-30 m			
Dimensions	450x250x60mm	450x250x60mm	450x250x60mm			
Weight	4.3 kg	4.3 kg	4.3 kg			



OTHER SPECIFICATIONS

Parameters	Values
Input Range	90V-300V
Operating Frequency	50Hz
Power Factor	>0.95
Efficiency	>85%
THD	<15%
Surge Protection	>4 KV
LED Working Voltage	6.3V
LED Luminous Efficiency	> 115 lm/W
CRI	>80

FeaturesColorColor TemperatureOpticsLED Beam AngleStorage TemperatureWorking LifeBody typeIP Rating

Specifications Cool White; Warm White 2700-8000 K Available on request 120° 35° C 50000 Hrs High Pressure Aluminum DieCast

*Models are available in different size and color.

OUTDOOR PRODUCTS

220V AC LED STREET LIGHTS (SUPER ECO SERIES)

Latest addition to Our product family is our indigenously developed product line with extrusion body, offering best thermal management, high lumens and attractive pricing. These products are ideal for replacement of CFL based lighting products in societies, small communities, gardens, rural areas etc.



Item	S-SL-25	S-SL-50	S-SL-75	S-SL-100	S-SL-150		
Net Power	25W	50W	75W	100W	150W		
LED Efficacy		>115 lm/watt					
CRI			>80				
SUPPLY RANGE			110V – 275V				
PF	>0.95						
THD	<15%						
SURGE	>4 KV						
IP Rating		IP65					
BODY		Excursion Aluminum Heatsink					
Working Life	50000 Hours						
Weight (Kg)	0.8	1.3	2.2	2.9	4.4		
Dimensions (mm)	280x120	450x120	620x120	450x220	620x220		

GARDEN LIGHT/Bollard Light

LED Garden Light	GL-20
Feature	Specifications
LED Power	20W/30W
Lumen Output	1800-3000
Voltage Range	90-270 V AC
Life	60,000 hours
Inbuilt Power Factor Correction	Yes, >0.85

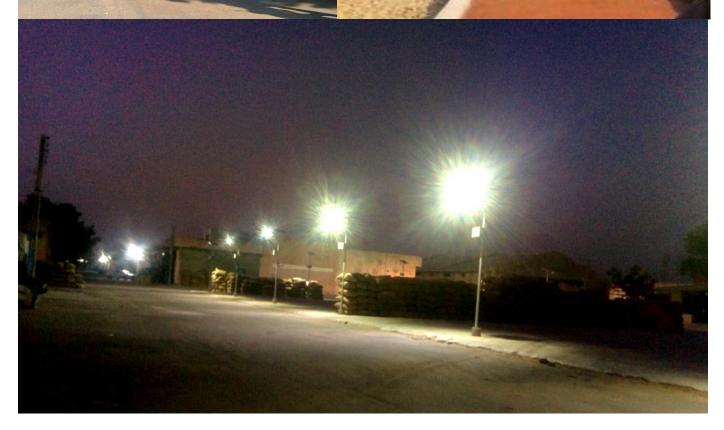
Garden Lights is a LED based decorative model used in parks, gardens, campus areas.







SOLAR CENTRE PRO



SOLAR LED STREET LIGHTS (PREMIUM MODELS)

These solar driven LED streetlights produce powerful illumination and come with an easy installation without hassles of digging, laying down of cable wires or need of transformer distribution points etc. They are ideal for villages, remote locations, rural areas, and rough terrain etc. where electric supply is not easily available.



Item	SSL-6
Solar Panel	30W
Battery Size	26AH SMF
Net Power	8W
LED Efficacy	>135 lm/watt
Recommended Pole	4 m
Pole Distance	8-10 m
Dimensions	275x100x40mm
Weight	1.3 kg



Item	MNRE-9
Solar Panel	40W
Battery Size	40AH Tubular
Net Power	8.5W
LED Efficacy	>135 lm/watt
Recommended Pole	4 m
Pole Distance	10-12 m
Dimensions	275x100x40mm
Weight	1.3 kg



Item	SSL-9	SSL-12	SSL-7B	SSL-9B
Net Power	12W	15W	18W	24W
Solar Panel	40W	50W	70W	80W
Battery Size	SMF 42AH	SMF 42AH	65AH SMF	65AH SMF
Number of LEDs	9	12	7	9
LED Efficacy		>135	m/watt	
Recommended	5 m	5 m	5m	5 m
Pole Distance	10-12m	12-15 m	12-15 m	15-18m
Dimensions	315x135x50m	315x135x50mm	315x135x50mm	315x135x50mm
Weight	1.7 kg	1.7 kg	1.7 kg	1.7 kg

SOLAR LED STREET LIGHTS (PREMIUM MODELS)

Item	SSL-24	SSL-24B
NET Power	30W	60W
Solar Panel	120W	24V 250W
Battery Size	SMF 100AH	SMF 100AH 24V
LED Efficacy	>135	lm/watt
Recommended Pole	6 m	7m-8m
Pole Distance	18-20 m	20-25 m
Dimensions	375x200x50mm	375x200x50mm
Weight	2.7 kg	2.7 kg



Item	SSL-48	SSL-36B
Net Power	60W	90W
Solar Panel	24V 250W	24V 400W
Battery Size	SMF 100AH 24V	SMF 200AH 24V
LED Efficacy	>135	m/watt
Recommended Pole	6m -7m	8 m
Pole Distance	20-25 m	25-30 m
Dimensions	450x250x60mm	450x250x60mm
Weight	4.3 kg	4.3 kg



OTHER SPECIFICATIONS

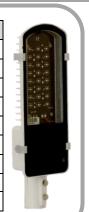
Parameters	Values	Features	Specifications
Dimming Option	Yes	LED	OSRAM
Driver Efficiency	>85%	Lens	LEDLINK or Equivalent
LED Working Voltage	3.15V	Color	Cool/Warm White
LED Luminous Efficiency	>= 135 lm/W	Color Temperature	2700-8000 К
CRI	>70	Optics	60/85x135° or Equivalent
Max Current Consumption	350 mA or 700 mA	Indicators	4 Battery Level and Panel Charging
Max Current Consumption	350 mA or 700 mA	Body type	High Pressure Aluminum DieCast
Max Temperature of Heat Sink	80° C	IP Rating	IP65
Working Life	60000 Hrs		

*Models are available in different size and color.

SOLAR LED STREET LIGHTS (ECO MODELS)

Item	E-SSL-6	E-SSL-9	E-SSL-12	E-SSL-16
Net Power	8W	12W	15W	20W
Solar Panel	30W	40W	50W	70W
Battery Size	26AH SMF	42AH SMF	SMF 42AH	SMF 65AH
Number of LEDs	6	9	12	16
ED Efficacy		>115 lr	n/watt	
ecommended Pole	4 m	4 m	5 m	5 m
ole Distance	8-10 m	8-10 m	10-12 m	12-15 m
Dimensions	275x100x40mm	275x100x40mm	275x100x40mm	275x100x40mm
Veight	1.3 kg	1.3 kg	1.3 kg	1.3 kg

Item	E-SSL-24	
Net Power	30W	
Solar Panel	120W	-
Battery Size	SMF 100AH	-
Number of LEDs	24	
LED Efficacy	>115 lm/watt	
Recommended Pole	5 m	- 100
Pole Distance	15-20 m	
Dimensions	315x135x50mm	
Weight	1.7 kg	



Item	E-SSL-36	
Net Power	45W	1112
Solar Panel	200W	
Battery Size	SMF 150AH 24V	1.1.1.
Number of LEDs	36	1. 1. 1.
LED Efficacy	115 lm/watt	A. da da
Recommended Pole	5m-6 m	
Pole Distance	18-20 m	
Dimensions	375x200x50mm	
Weight	2.7 kg	

Item	E-SSL-48	
Net Power	60W	ALTER
Solar Panel	250W	1.0
Battery Size	SMF 100AH 24V	
Number of LEDs	48	a harden
LED Efficacy	>115 lm/watt	a starter
Recommended Pole	6m-7m	
Pole Distance	20-25 m	
Dimensions	375x200x50mm	
Weight	2.7 kg	1 -4

ltem	E-SSL-72
Net Power	90W
Solar Panel	400W 24V
Battery Size	150AH 24V
Number of LEDs	72
LED Efficacy	>115 lm/watt
Recommended Pole	7m-9m
Pole Distance	25-30m
Dimensions	450x250x60mm
Weight	4.3 kg

_ _ _ _ _ _ _ _ _ _

• Other Specifications are same as AC Economy Models

LI-ION BASED SOLAR PRODUCTS

- Next generation Solar Technology
- Theft proof Idle for rural areas
- Integrated maintenance free LiON Battery
 - Low idle current
 - Upper and deep discharge cutoff
- Intelligent circuitry
 - Automatic dimming
 - Autonomy without adding extra battery/panel cost
 - Integrated sensor provides 10 hour operation
- Simple, low cost installation
 - 20-40% lower cost than lead acid based solutions
- IP65 compliant
- 4 stage battery indication level; automatic dusk to down operation with power saving mode; battery over voltage and low voltage protection; Repairable

"Batteryless" Solar Street lights

Model	LION-12	LION-15	LION-18	LION-24
Net Power	12W	15W	18W	24W
Solar Panel Size	40W	40W	50W	75W
Autonomy	18 Hours	18 Hours	18 Hours	18 Hours
LED Efficacy	>135 lm/watt			
Recommended Height	4-5m	4-5m	5-6m	5-6m
Luminary Weight	3.2Kg	3.2Kg	3.2Kg	3.2 Kg
Dimming	Yes	Yes	Yes	YES



All-IN-ONE Solar Street lights

Model	LIA-12	LIA-15	LIA-18
Net Power	12W	15W	18W
Solar Panel Size	40W	40W	50W
Autonomy	18 Hours	18 Hours	18 Hours
LED Efficacy	> 115 lm/watt		
Recommended Height	4-5m	4-5m	5-6m
Luminary Weight	3.2Kg	3.2Kg	3.2Kg
Dimming	Yes	Yes	Yes





• Detachable batterybox , no need to open the entire panel board to fix a small issue

• Motion sensor available on request



AFFORDABLE SOLAR HOME LIGHTING SYSTEM- NESSAHOME

Features:

- Inbuilt intelligence for dimming control using micro controller based programming.
- The latest LED Technology to give out pure white Hazardless Light.
- Manual dimming Control
- Indicator LED for Low Battery and Solar Charging Easy Installation.

Product Range:

- two LED tubelight, one mobile charger
- Eco Friendly Chula
- FAN

INNOVATIVE SOLAR LANTERN

Features

- Lightest Solar Lantern in the industry
- Robust toughened glass based solar panel
- SMD type latest LED technology
- 3/6 hours of grid/solar charging of LiON battery
- Intelligent circuitry
 - 2 set points- 4 hours and 8hours backup
 - Can be run continuously with adaptor when grid is available
- Diffused glass around LED to protect eye from direct exposure
- LED indicator which changes colour based on state of charge
- External AC/DC adaptor option with Nokia small pin compatibility
- 1 year warranty

AFFORDABLE SOLAR HOME LIGHTING SYSTEM

Features

- Smart Electronics
 - Mobile charging
 - Low idle current for extended battery life
 - Backup even in cloudy conditions, 2.5/5hr backup
- Integrated maintenance free LiON Battery
 - Upper and deep discharge cutoff
 - Replaces 5W CFL
- Multi-Purpose-reading, table lamp and outdoor
- 1 year warranty
- Variants
 - 2x1 solar bulb, Solar bulb + mobile





SOLAR POWER PACKS

We specializes in designing and installing Solar Power Packs for industries, residential societies, individual houses, campuses etc. The system installation is done so as to offer maximum economic value to the customer.

Being MNRE channel partner, Nessa can help the customer avail subsidies as well as seamless and smooth service support.



SOLAR PUMP

- Available in 0.5 HP to 7HP
- Integrated MPPT (Maximum power point tracking)
- High efficient solar photovoltaic panels with minimum 25 year service life
- High sand protection
- High wear resistance
- Robust galvanize steel mounting structure
- Virtually no maintenance cost



HP	STAGE	HEAD (m)	DISCHARGE (Imp)	Total System
				Watt
2	6,8,9,13	20,30,50,70	244,157,93,63	2100
3	3,5,12,15	20,30,50,70	350,224,133,91	3000
5	4,4,7,10	20,30,50,70	560,358,212,145	4800





INDUSTRIAL LIGHTING PRODUCTS



LED FLOOD LIGHTS

In recent years company has specialized in area lighting applications especially high mast tower applications. Our LED flood light products are suitable for façade highlighting, party plots, play grounds, container yards, open storage area etc.



Area lighting, building highlighting, façade lighting

Model	FL-25	FL-30	FL-45
LED Type	SMD	SMD	SMD
Net Power	25W	30W	45W
LED Efficacy	> 135 lm/watt		
Recommended Height	4m	4-5m	5-6m
Weight	1.2 kg	1.6 kg	1.6 kg



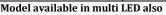
Area lighting, building highlighting, façade lighting

Item	FL-60
LED Type	SMD
Net Power	60-65W
LED Efficacy	>135 lm/watt
Recommended Height	7-9 m
Weight	2.1 kg



Party plot, playground lighting application

Item	FL-150
LED Type	SMD/COB
Net Power	150W
LED Efficacy	> 115 lm/watt
Recommended Height	12-20 m
Weight	5.1 kg
* Model available in multi	LED also





Party plot, playground lighting application

Item	FL-120
LED Type	SMD
Net Power	110-120W
LED Efficacy	>135 lm/watt
Recommended Height	9-12 m
Weight	3.3 kg



Highmast Tower Application lighting application

Item	FL-200		
LED Type	SMD/COB		
Net Power	200-210W		
LED Efficacy	>115 lm/watt		
Recommended Height	20-40 m		
Weight	7 kg		
* Model available in multi LED also			



LED FLOOD LIGHTS

Item	FL-250	FL-350	FL-400
LED Type	СОВ	СОВ	СОВ
Net Power	250 +/- 10%W	350 +/- 10%W	400 +/- 10%W
LED Efficacy	>115 lm/watt		
Recommended Height	20-40 m 20-40 m 20-40 m		
Weight	12 kg	12 kg	12 kg
Dimensions (mm)	670 x 320 x 190	670 x 320 x 190	670 x 320 x 190

Highmast Tower Application lighting application

HIGHBAY LIGHTS

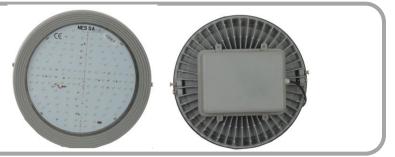
These AC driven LED bay lights produce powerful illumination and are power efficient replacement for halogen and MH lights. They are ideal for illumination in the industrial work area.

AC LED Bay Light (CC)B Type)			
Product Code	Watt	Equivalent To	LED Efficacy	
BL-90	90W	250W HPSV	>115 lm/watt	

Item	BL-70	BL-100
LED Type	SMD	SMD
Net Power	70W 100W	
LED Efficacy	>135 lm/watt	
Recommended Height	7-9 m	10-12 m
Weight	3.1 kg	3.1 kg



Item	NES-BL-150	NES-BL-200	
LED Type	SMD	SMD	
Net Power	150W 200w		
LED Efficacy	>135 lm/watt		
Recommended Height	10-15 m	12-18 m	
Weight	5.1 kg	5.1 kg	



220V AC FLOOD LIGHTS/BAY LIGHTS

Latest addition to our product family is our indigenously developed product line with extrusion body, offering best thermal management, high lumens and attractive pricing. These products are ideal for replacement of CFL based lighting products in societies, small communities, gardens, rural areas etc.







Item	S-SL-25	S-SL-50	S-SL-75	S-SL-100	S-SL-150	
Net Power	25W	50W	75W	100W	150W	
LED Lumens	>105 lm/watt					
CRI		>80				
SUPPLY RANGE		110V – 275V				
PF	>0.95					
THD	<15% >4 KV IP65					
SURGE						
IP Rating						
BODY	Excursion Aluminum Heatsink					
Working Life	50000 Hours					
Weight (Kg)	0.8	1.3	2.2	2.9	4.4	
Dimensions (mm)	280x120	280x240	280x360	480x220	480x450	

Fittings are available in black and white colors Dimensions can vary slightly

WELL GLASS FITTING

LED wall mounted WELL GLASS LIGHT luminaire comprising of die-cast housing with powder coating. Fully pre-wired using a low loss electronic constant current LED driver having an improved power factor and low Total Harmonic Distortion (THD).

We manufacture non-flame proof well glass fittings and retrofit kits for flampe proof fittings.

Feature	WELL-30	WELL-40	WELL-75
LED Power Consumption	30W	40W	75W
LED Efficacy		>115 lm/watt	
Voltage Range		90-275V AC	
Life		60,000 hours	
Inbuilt Power Factor Correction		>0.95	
Surge Protection		>4KV	
THD		<10%	



Traffic/Flasher Light

Our Traffic/Flasher Lights are a LED based models used in as traffic lights on streets, as hazard indication lights during day and night in construction sites, under repair roads, accident zones etc..

Feature	Specifications
LED Power	9W
Lumen Output	90
Voltage Range	90-275V AC
Life	60,000 hours
Inbuilt Power Factor	Yes, >0.85
Correction	



INDOOR PRODUCTS

220V AC LED INDOOR LIGHTING

As compared to the regular Incandescent and CFL lamps, these LED fixtures consume much less power,

Item	IND-SQ	IND-Rnd	IND-28 (300x300 mm)	IND-40 (600x600 mm)	IND-60 (600x600 mm)
Shape	- And a start of the start of t				
Power	6,9,12,15,18,24	6,9,12,15,18,24	28W	40W	60W
Input Range		•	90V-265V		
Operating Frequency			50Hz +3% -5%		
Power Factor	>0.90				
Efficiency	>85%				
LED Efficacy	>= 115 lm/W				
CRI	>80				
Maximum Temperature of Heat Sink			65° C		
Color		Cool Whi	te; Intermediate; W	/arm White	
Color Temperature			2700-7000 K		
Optics			N.A.		
Beam Angle (led)	120				
Working Life	50000 Hrs				
Standard Warranty			2 Years		

emit less heat and are highly durable while still giving a similar light output.



Fixture Dimension

Sr.	Watt	Dimension		
No.		Outer	Cut out	Heights
		Size in mm	Size in mm	Size in mm
	Led Round Down Lights		-	
1	5w-7w	91	82	43
2	8w-12w	121	112	48
З	15-18w	151	140	52
4	20-25w	182	164	56
	Led Square Down Lights			
1	5w-7w	90*90	80*80	38
2	8w-12w	135*135	120*120	42
3	15-18w	160*160	145*145	42
4	20-25w	195*195	170*170	45

INDOOR PRODUCTS

220V AC LED TUBELIGHTs

Feature	Specifications	
Tubelight	10W, 18W, 22W	
Life	60,000 hours	
Inbuilt power	Yes, >0.85	
factor correction		
Voltage Range	90-270 V AC	
PF	>0.95	
Lumens	>100 lm/watt	
Body	Aluminum body	

220V AC LED Bulbs

<u>LED Bulbs</u>			
Feature	Specifications		
Tubelight	3W, 5W, 7W, 9W, 12W		
Life	50,000 hours		
Voltage Range	90-270 V AC		
PF	>0.95		
Lumens	>100 lm/watt		

LED tube light are environment-friendly semiconductor lighting which possesses a number of advantages over the conventional ones such as low power consumption, no flashing, no need of choke or starter, soft light which is favorable for the user's eyesight and physical health.



Compared to CFL bulbs, LED bulbs offer more than 70% power savings and have a very long life. With proper thermal management, we have ensured that our bulbs provide same light output year over year.



				Pole Height		
Lu	x Level Chart	5 Meter	6 Meter	7 Meter	9 Meter	11 Meter
	6 Watt	10	7	NA	NA	NA
	9 Watt	14	10	8	NA	NA
.ce	18 Watt	21	15	11	NA	NA
Light Source	30 Watt	34	24	18	11	NA
Ligh	60 Watt	56	38	25	20	16
	90 Watt	98	65	43	30	23
	110 Watt	115	83	60	37	27

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